TECHNICAL SPECIFICATION

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Health informatics — Categorial structure for representation of herbal medicaments in terminological systems

Informatique de santé — Structure catégorielle pour la représentation de médicaments à base de plantes dans les systèmes

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html

The committee responsible for this document is ISO/TC 215, Health informatics.

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Introduction

Medicinal or *pharmaceutical products* (3.11, 3.12) derived from plants have complicated backgrounds and a wide range of uses in traditional and western medicine.

Medicinal plants contain many constituent substances and the content of these substances differ throughout parts of some plants. Medicinal plants may be used individually or in combination with other medicinal plants[32]-[63]. The combination of medicinal plants and the rules and methods used to achieve this combination is conventionally called a "formula." The constituents of formulas are determined by the species of the source materials, which parts of the plants are used, and the quantity of each source material used. The quantity of active substances used directly influences the efficacy and side effects of herbal medicines.

A *medicine regulatory agency* (3.10) controls pharmacopoeias that define the "requisites" for each herbal *pharmaceutical* and/or *medicinal product* and the "name" by which the product is to be referred. It should be noted that a pharmacopoeia does not define a product itself, but rather its "design" under its "common name." In other words, pharmacopoeias define "a set of concepts" with a "common name" and regulate the fundamental characteristics of a certain group of *pharmaceutical* or *medicinal products*.

However, there are many *synonyms*, *homonyms* and *polysemes* used in pharmacopoeias: the same species of source material is often represented by different expressions, and *vice versa*. In addition, a single "common name" often designates different compositions of formulas in different pharmacopoeias[28]–[30], [52]–[63]. Disagreement on the definitions of "sets of concepts" and "common names" of herbal medicines in various *terminological resources* (3.7)[10] have caused confusion in international trade which increases risk of harm to patients and negative ampact to scientific research including clinical tests.

This problem should be resolved by standardization, while according respect to each pharmacopoeia and avoiding market distortion. ISO 860[2] has already proposed an approach to this issue in preparing the harmonization of necessary concepts before "term standardization." This approach implicitly requires the prior building of a well-structured backbone, i.e. "a set of concepts" for terms. For this purpose, ISO 1087-1, EN 12264 and ISO 17115 [4] -[2] define the structures of concepts and provide the necessary terms that designate the elements of concept structures. This framework is called "categorial structure."

This document uses a *categorial structure* to represent the concepts required in order to contribute to both international harmonization and supporting the ability to *map* with appropriate *semantic correspondence* between the terms on herbal medicines in various pharmacopoeias. Please refer to ISO 17115:2007, Annex A, as well as ISO 1087-1.

This document provides initial guidance to those developing and implementation systems to represent herbal medicaments. Users should understand that this work has identified several issues, which require further investigation in order to develop a future International Standard:

- need to clarify and describe the relationship of the concepts described in the categorial structure to existing standards including IDMP; where there are differences, ISO 11238 IDMP should be followed;
- definitions used in this document are those used in some cultures, countries and areas of clinical practice (e.g. traditional medicine) which use words differently to that of IDMP (see <u>Annex B</u>);
- these variations may also arise from the focus on terminological and ontological specifications rather than pharmaceutical concepts; there is a recognized need to undertake further work to clarify these definitions and to identify where there is
 - more than one term is used to describe a single thing and agree on synonyms or preferred terms,
 - single term used with different meanings in different contexts, and

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- a need to define a term or concept not currently defined or confusing, e.g. active substance, herbal substance, botanical substance, source material and source;
- the relationship between medicinal regulatory agencies and pharmacopoeia;
- the use of the term concept has been used in this document from a terminological perspective not from a pharmaceutical one and this requires clarification.

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Health informatics — Categorial structure for representation of herbal medicaments in terminological **systems**

1 Scope

The document aims to

- specify the minimal characterizing generic concepts in herbal medicament (3.2) within terminological systems (3.8), that are required for terms used to identify of herbal medicines regulated by medicine regulatory agencies (3.10), and
- b) facilitate the consistency and interoperability of the terms and their designating concepts in terminological systems.

In order to achieve these goals, this document specifies the minimal compositional concept representation of herbal medicament for use in terminological systems (3.8), while expressing semantic links and characterizing categories for formal definitions, with a set of domain constraints in the subject field [2].

Herbal medicaments (3.2) can be classified into PREVIEW

- 1) single herbal medicament (SHM), and (standards.iteh.ai)
- 2) herbal medicament composed of several kinds of SHM.

Single herbal medicament is composed of only one herbal medicament. Herbal medicament composed of several kinds of SHMs is conventionally called formula. This document is not intended to include the mixture e68202165fb3/iso-ts-18062-2016 of formulae.

The specific intended use of this *compositional concept representation* is to

- provide a well-structured backbone for terminological systems,
- clarify the synonymy, homonymy and polysemy across different clinical specialties and terminological resources,
- promote meaningful exchange of information among different terminological systems,
- promote consistency and interoperability or re-use of terms among different terminological systems,
- facilitate the representation of herbal medicines in a manner suitable for computer processing,
- support developers and maintainers of terminological resources (3.7) to facilitate conformance,
- support knowledge management on herbal medicines with facilitating analysis of concerned data, and
- support the reduction of confusion in trade and of health hazard in consequence.

The following topics are out of scope for this document:

- any implementation models or database schemas, and manufacturing models;
- any models or frameworks for quality control, and models for chemical and physical characteristics;
- any individual pharmaceutical or medicinal products, and combinations use with modern medicines.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 1087-1, ISO 17115, EN 12264 and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at http://www.electropedia.org/
- ISO Online browsing platform: available at http://www.iso.org/obp

3.1

herbal substance

botanical substance

source material (context: pharmacy)

source (context: pharmacy)

physical matter of the plant used as medicines, including plant, algae, fungi or lichen, used in whole or in part

Note 1 to entry: In this document, *herbal substance* (3.1) is used in the meaning of *source material*. The ingredients of it are determined by the *part(s) of interest* (3.3) of an origin.

Note 2 to entry: The definitions of "herbal substance" in E.1.3 (herbal substance), E.1.5 (herbal substance, according to the pharmacopoeia), E.1.6 (herbal preparation), E.23 (European Directives: Article 30, 31, 32) and E.2.2 (European Pharmacopoeia) in ISO/TS 19844:2015, Annex E[26] are different from the definition in this document. The former definitions should be respected when implementing an IDMP family or referring to European Pharmacopoeia. Where IDMP applies in the jurisdiction, IDMP definitions should be given priority.

3.2

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herbal medicament

minimal concepts for representation of regulated design or identification of *pharmaceutical products* (3.12) or *medicinal products* (3.11) made of *herbal substance(s)* (3.1)

Note 1 to entry: This document does not mention any individual *pharmaceutical products* (3.12) or *medicinal products* (3.11). *Herbal medicament* (3.2) designates the "design" or the concepts of herbal *pharmaceuticals* or *medicinal products* at an abstract or design level regulated by *medicine regulatory agencies* (3.10). Pharmacopoeias defined them with their name, therefore, that are also regulated by *medicine regulatory agencies*.

Note 2 to entry: This document does not include the mixture of formulas.

3.3

part of interest

medicinal part

partofinterest

part of the plant that is intended for use as a herbal substance (3.1)

EXAMPLE Seed, root, rhizome, stem, bark, leaf, bud, flower, fruit.

3.4

assistant material

adjuvant material

substance added during processing in order to enhance the therapeutic usefulness of pharmaceutical *herbal medicament* (3.2) treatment

Note 1 to entry: "Adjuvant" in this context does not mean the adjuvant in modern scientific parlance, rather, is used to support elution of bioactive substrates, enhancing efficacy and reducing toxicity, flavouring and taste masking, or as a filler.

EXAMPLE Rice wine, liquor, vinegar, honey.

3.5

value

<terminological resources> designation of a characterizing concept as an instance of a concept of a characterizing category

Note 1 to entry: This definition can be rewritten: designation of an individual concept as a member of the extension of a generic concept, or accurately, a characterizing generic concept. This term is not explicitly defined both in either EN 12264 or ISO 17115, but can only be derived speculatively from the relations between terms and definitions contained therein.

Number, controlled or regulated vocabulary or code, object identifier, regulated description. EXAMPLE

Note 2 to entry: Value domain, i.e. characterizing generic concept or characterizing category is defined as the values (3.5) shall be allowed to be used in a particular context (3.6). Please also refer to context (3.6) and Annex A.

3.6

context

related conditions and situations that provide a useful understanding and meaning of a subject

Note 1 to entry: ISO 1087-1 also defines this term as "text which illustrates a concept or the use of a designation." However, this document adopts the definition in ISO/TR 17119 because of its clear and direct illustration as well as the fact that it is not limited to text.

Note 2 to entry: *Context* (3.6) may contain multiple viewpoints according to its definition because the definition of value domain said in its note that the context includes a superordinate concept and a semantic link. Also, semantic link means any types of associative relation that includes sequential relation, temporal relation, causal relation, etc. Please also refer to value (3.5) and Annex A. (Standards.iteh.ai)

[SOURCE: ISO/TR 17119:2005, 2.5 — modified]

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chealthcare controlled set of terms in healthcare

Note 1 to entry: A terminological resource is usually designed and controlled for use with computers for specific healthcare purpose such as data entry, aggregation, retrieval and analysis.

[SOURCE: ISO 17117-1:—, 3.4.1]

terminological system

<healthcare> structured human and machine-readable representation of healthcare concepts and relationships

Note 1 to entry: Every terminological system shall be at least organized by hierarchical relations.

Note 2 to entry: Every terminological system shall have term representations of healthcare concepts for humanreadability.

Note 3 to entry: Terminological system may have associative relations and definitions.

Note 4 to entry: Terminological system is used directly or indirectly to describe health conditions and healthcare activities, and allow their subsequent retrieval for analysis.

[SOURCE: ISO 17117-1:—, 3.4.2]

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3.9

medical domain

field of action, thought or influence related to the science or practice of medicine or a sub-specialization

Note 1 to entry: Medical domain (3.9) can be recognized as a facet of subject field. It provides one of the factors that compose a context (3.6), and affects the values (3.5) bound to semantic links. See also the examples in 5.1.

Note 2 to entry: Modern medicine is also an instance of a concept of medical domain (3.9) as a characterizing category.

EXAMPLE Modern medicine, Ayurveda, traditional African medicine, traditional Australian medicine (Aboriginal), traditional Canadian medicine, Chinese medicine or traditional Chinese medicine, traditional Japanese medicine (Kampo), traditional Korean, Mongolian, New Zealand (Maori), Thailand, Tibetan, Unani, or Vietnamese medicine, and so on.

Note 3 to entry: Conceptual representation shall be free from multilingual expressions but medical domain (3.9) would also affect the expressions in a certain script(s)[19] of a language and the related factors[15]-[22].

3.10

Medicine Regulatory Agency

institutional body that, according to the legal system under which it has been established, is responsible for the granting of marketing authorization for *medicinal products* (3.11)

[SOURCE: ISO 11615:2012, 3.1.53]

3.11

iTeh STANDARD PREVIEW medicinal product

any substance or combination of substances that may be administered to human beings to treat or prevent disease

Note 1 to entry: Medical products are used to make a medical diagnosis or to restore, correct or modify https://standards.iteh.ai/catalog/standards/sist/aea87040-0723-4018-a5e5physiological functions

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Note 2 to entry: In this document, the scope of medicinal products is generally restricted to human beings. It is recognized that they could be applied also to animals but this is not the intended scope of this document.

[SOURCE: ISO 11615:2012, 3.1.49 — modified]

3.12

pharmaceutical product

qualitative and quantitative composition of medicinal products (3.11) in the dose form approved for administration in line with the regulated product information

[SOURCE: ISO 11615:2012, 3.1.58]

Abbreviated terms

HMherbal medicament (3.2)

SHM single herbal medicament (3.2)

5 Single herbal medicament (SHM)

5.1 Overview

The single herbal medicament (SHM) is the key component of herbal medications. The diagram below identifies the *characterizing categories*, which represent a *SHM* in *terminological systems*.

In the compositional concept representation, a single herbal medicament (3.2) has semantic links to the following characterizing categories: Origin (5.2.1), PartOfInterest (5.2.2) and Processing (5.2.3). These

are specified in <u>5.2</u>. The semantic links among them are specified in <u>5.3</u>. The relations of them are illustrated in a concept diagram in <u>Figure 1</u>.

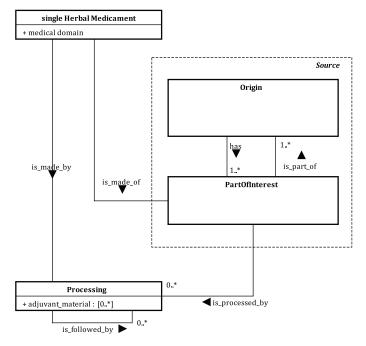


Figure 1 — Concept representation of single herbal medicament

A source or source material (3.1) is PartOfInterest (5.2.2) of Origin (5.2.1). The resultant material after Processing (5.2.3) is a single herbal medicament, SHM.

Some *medicines regulatory agencies* (3.10) allow that the *Origin* (5.2.1) is not restricted to a single species. *SHM* has its official names in a pharmacopeia or related documents according to the definition therein.

EXAMPLE 1 The Chinese Pharmacopoeia defines that "Rhei Radix et Rhizoma" shall be made from one or some of { *Rheum palmatum* L. or *Rheum tanguticum* Maxim. ex Balf or *Rheum officinale* Baill }[57].

EXAMPLE 2 The Chinese and European pharmacopoeias define the controlled term "Cimicifugae Rhizoma" to designate different species with different medicinal uses[43] [57]. See also the examples in 5.3.1.

NOTE There exist *synonyms*, *homonyms* and *polysemes* among the expressions in pharmacopoeias[52]-[63]. Kew's "Medicinal Plant Name Services" is helpful for identifying these (www.kew.org/mpns; Royal Botanic Gardens)[28]-[30].